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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/707,029	11/16/2003	Ping Hsu	NTCP0023USA	1028	
27765 7.	590 12/22/2005		EXAMINER		
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506 MERRIFIELD, VA 22116			LE, DUNG ANH		
			ART UNIT	PAPER NUMBER	
WERTH IDDO	MERCHIEDD, VII 22110		2818	· · ·	
				DATE MAN ED 10/00/0005	

DATE MAILED: 12/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		11				
	Application No.	Applicant(s)				
	10/707,029	HSU, PING				
Office Action Summary	Examiner	Art Unit	_			
	DUNG A. LE	2818				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) This action is <b>FINAL</b> . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	·					
Disposition of Claims						
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.	·					
4a) Of the above claim(s) is/are withdraw	wn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7)⊠ Claim(s) <u>1-9</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>16 November 2003</u> is/a		ted to by the Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)	<b>-</b>					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date</li> </ol>	4)	r (PTO-413) ate Patent Application (PTO-152)				
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#### **DETAIL ACTION**

## Oath/Declaration

The oath/declaration filed on 11/16/2003 is acceptable.

This application is in condition for allowance except for the following formal matters:

The specification is objected to for the following reasons:

- i) In specification, paragraph [0025], line 14, change "nde" to --node--
- ii) The specification does not include reference signs "22" of Figure 5 and "23" of figure 7 (see CFR § 1.84p). Correction is required.
- iii) Reference sign "141" " of paragraphs [0027] and [0028], are not included in the drawings (see 37 CFR § 1.84p). Correction is required.

The specification has been checked to the extent necessary to determine the presence of all possible minor errors. However, the applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

# Reasons for Indication of Allowable Subject Matter

Claims 1- 9 would be allowed. The following is an examiner's statement of reason for allowance: None of the references of record teaches or suggests the claimed Method for

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fabricating a trench capacitor of DRAM devices with the step of oxidizing the spacer, the silicon surface at the neck portion of the deep trench and an upper portion of the first polysilicon layer, thereby forming a silicon oxide layer; and etch away the silicon oxide layer and among other steps/limitations as cited in independent claim 1.

If Applicants are aware of better art than that which has been cited, they are required to call such to attention of the examiner.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

When responding to the office action, Applicants' are advice to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist the examiner to locate the appropriate paragraphs.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung A. Le whose telephone number is (571) 272-1784. The examiner can normally be reached on Monday-Tuesday and Thursday 6:00am- 4:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DUNG A. LE Primary Examiner
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